

Figure 1

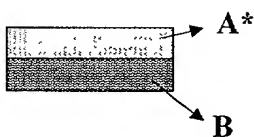
pH-Sensitive Mucoadhesive Film-Forming Gels



Composition of Gel:

- A solvent vehicle comprising at least 25% water
- Water-insoluble swellable mucoadhesive polymer(s)
- pH-sensitive film-forming polymer(s)
- Molecule of interest

pH-Sensitive Mucoadhesive Wax-Film Composites



Composition of Wax-Film Composite:

- A*: pH-sensitive mucoadhesive layer (comprised of the components of A above less the solvent vehicle)
- B: Water-insoluble wax layer with water-soluble or water-swellable polymer

Note: Molecule of interest is contained in either A* or B, or both

Figure 2

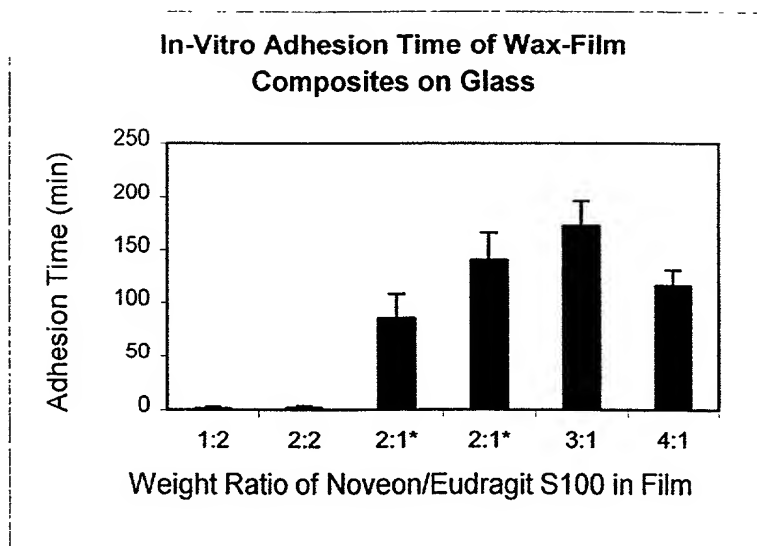


Figure 3

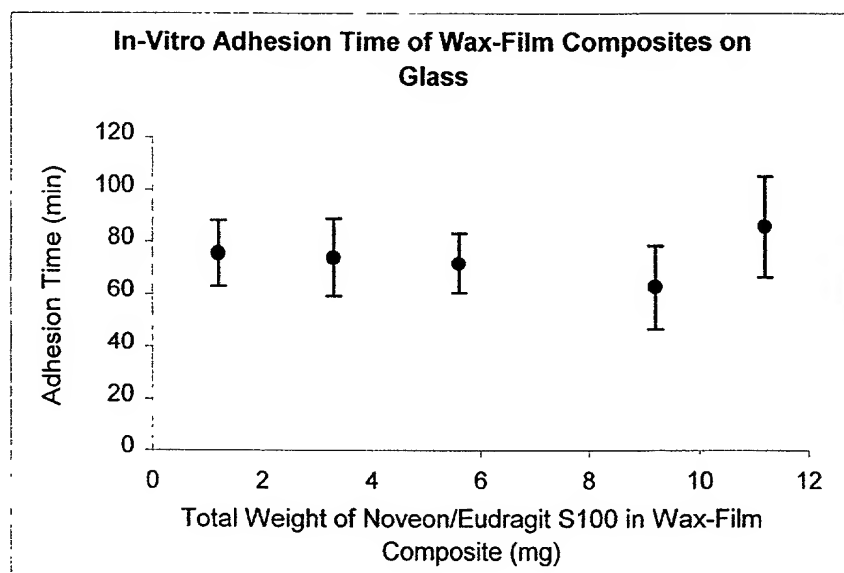


Figure 4

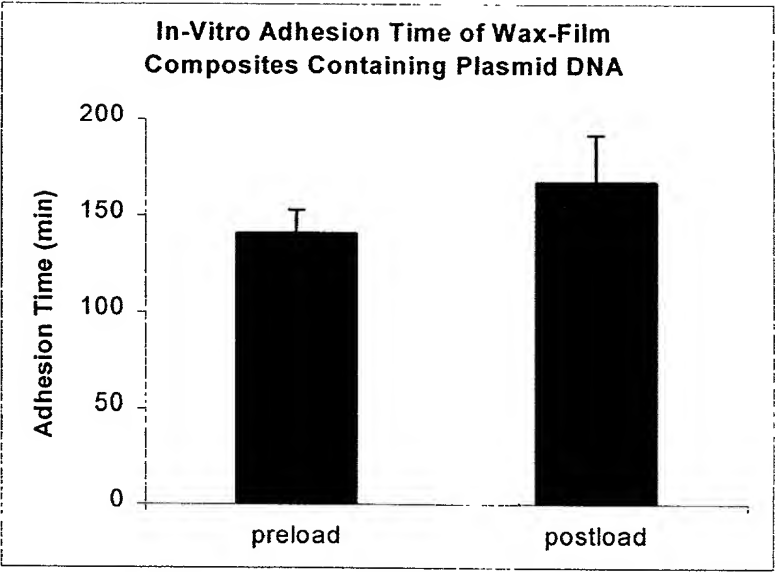


Figure 5

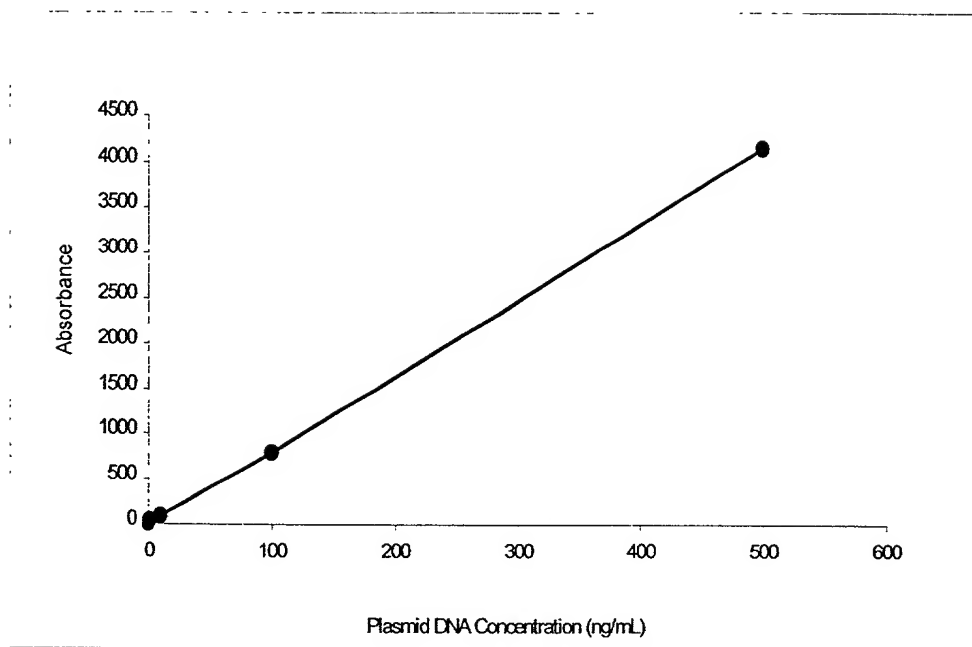


Figure 6

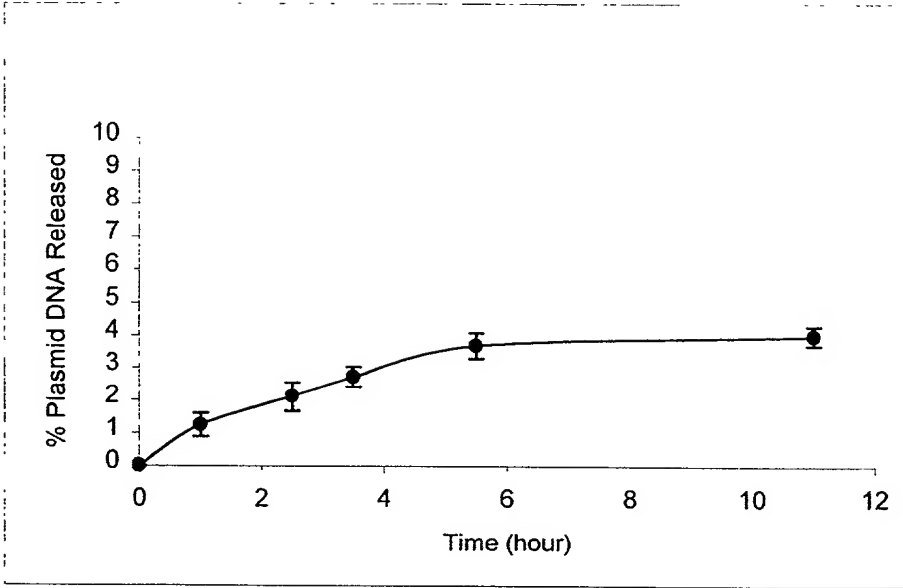


Figure 7

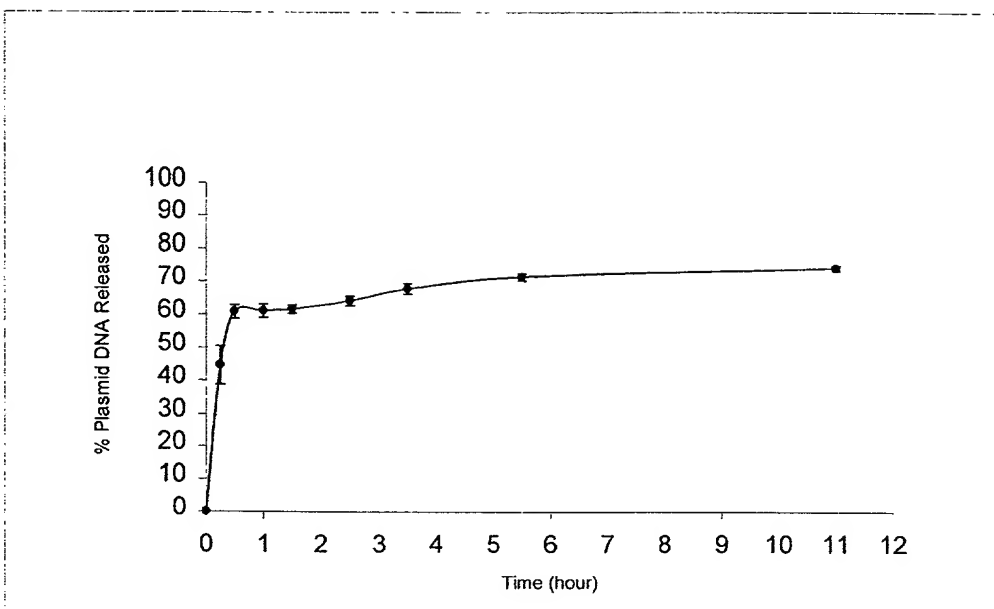
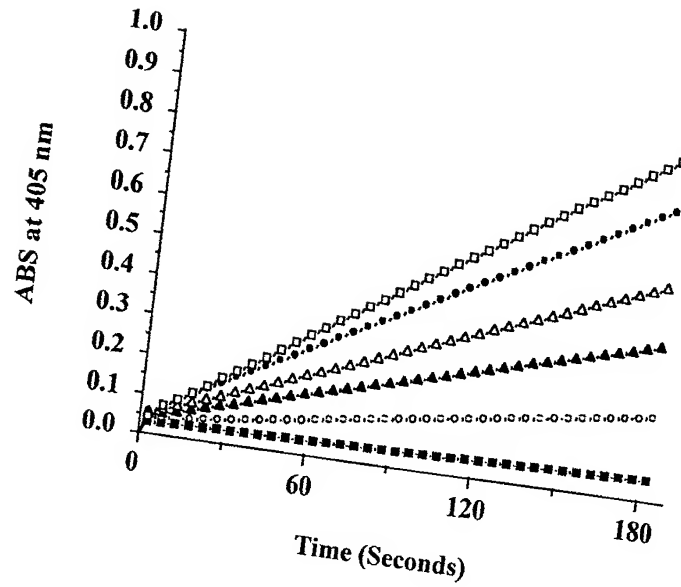


Figure 8

A



B

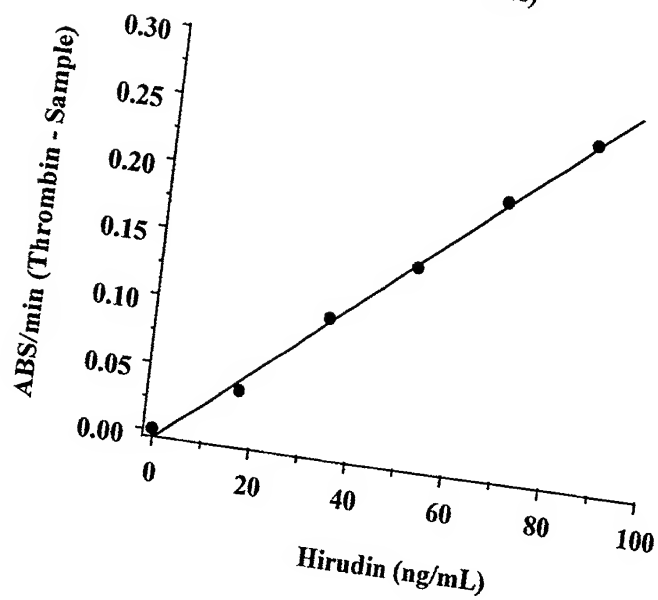


Figure 9

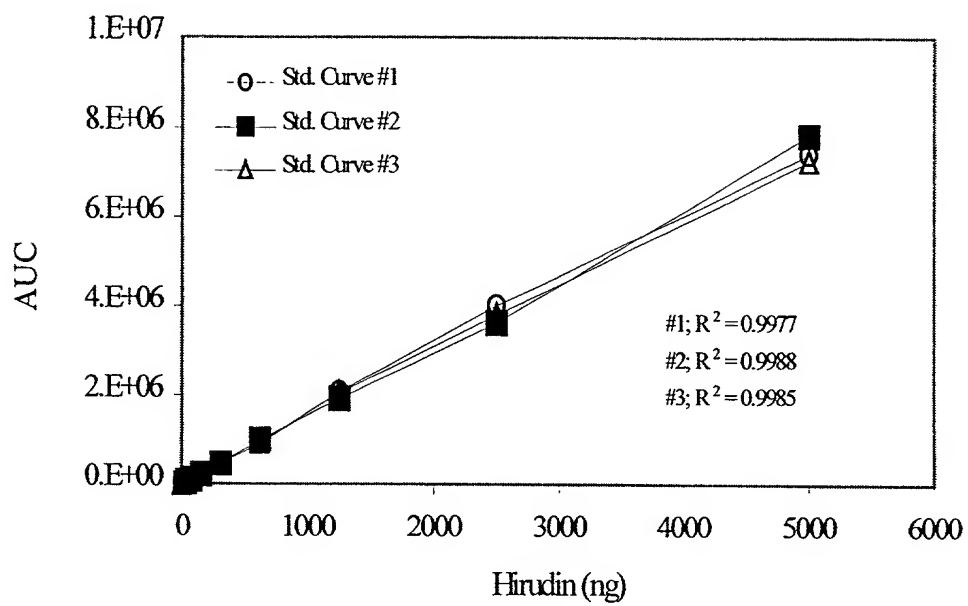


Figure 10

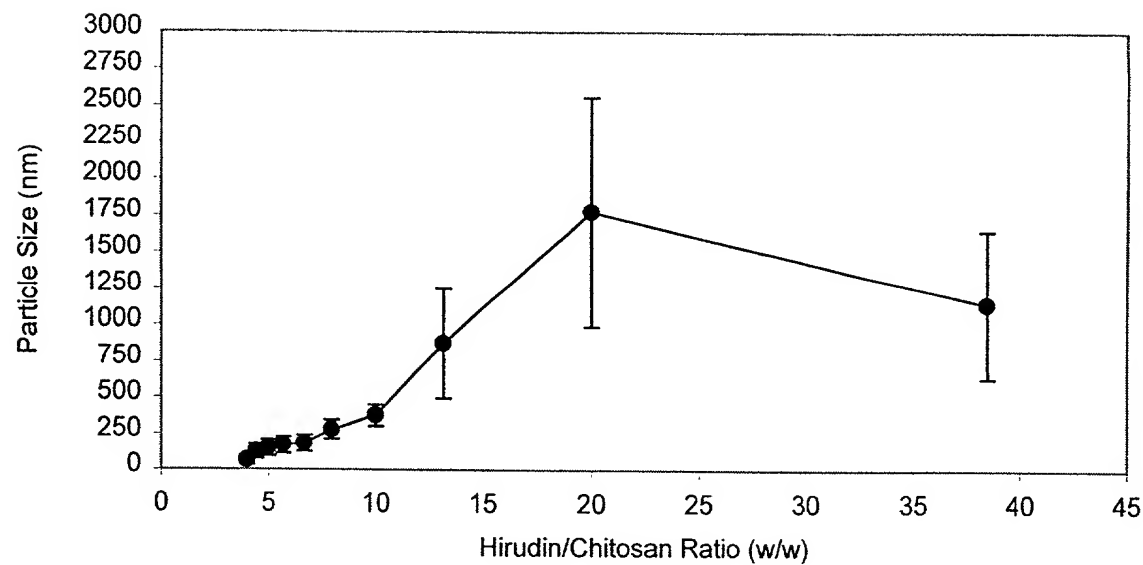


Figure 11

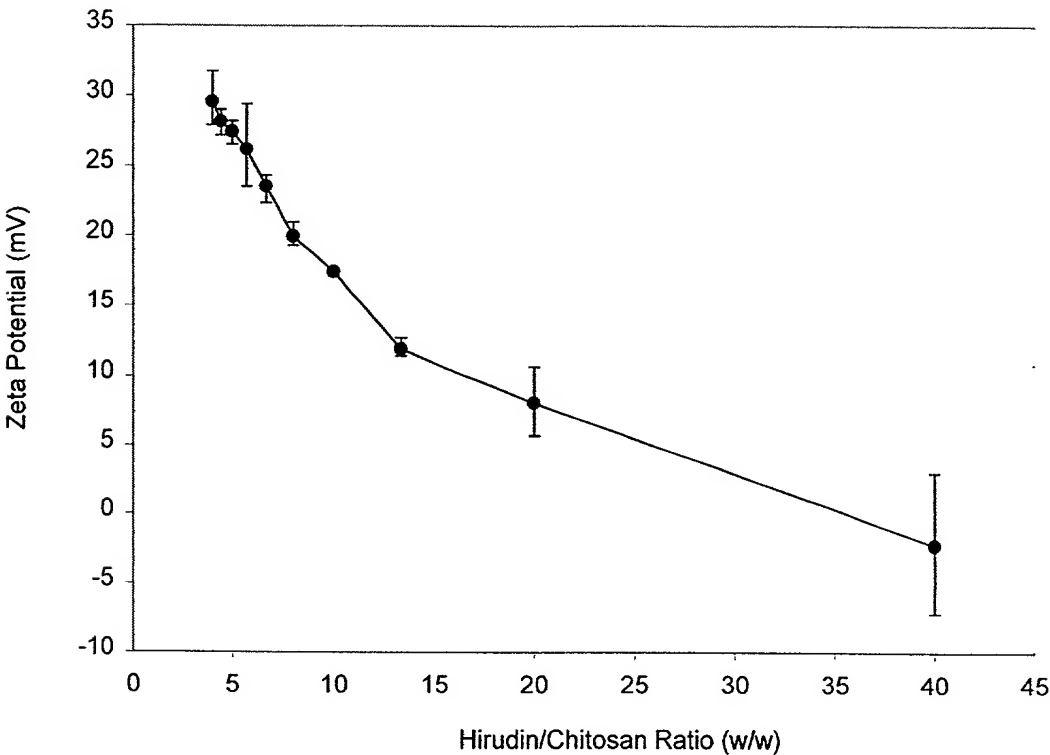


Figure 12

